## P009757US

recovered material;

## ABSTRACT OF THE DISCLOSURE

A method of embedding data in material comprises the steps of:
embedding data in original material to produce data embedded material;
removing the watermark from the data embedded material to produce

comparing the original and recovered material to determine the differences and locations of differences therebetween; and

storing the said locations and corrections which correct the said differences.

A method of removing the data embedded in the material, comprises the steps

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removing the data from the material to produce recovered material; deriving the said corrections and locations from the said store; and using the corrections to correct the recovered material at the said locations.

A method of embedding data in material, preferably comprises the steps of:

producing transform coefficients Ci representing a spatial frequency transform of the material, and

combining the coefficients Ci with the data bits Ri to produce a modified coefficient Ci' where

Ci'=Ci + αi Ri

the method further comprising determining αi for each unmodified coefficient Ci as a function F{Cn}<sub>i</sub> of a predetermined set {Cn}<sub>i</sub> of transform coefficients Cn which set excludes the coefficient Ci.

[Figures 3A, B and 4]